

Claims

1. A faucet comprising:

a body comprising: (i) a main bore; and, (ii) a sealing face;

a stem comprising a first portion that defines a flow path, wherein said flow path communicates with said main bore, said stem being slidable between first and second positions relative to said body;

a seal that moves with said stem between said first and second positions, wherein said seal engages said sealing face of said body when said stem is located in said first operative position to block liquid flow from said main bore of said body and from said flow path, and wherein said seal is spaced from said sealing face when said stem is located in said second position to allow liquid flow from said flow path and said main bore;

a biasing element that resiliently biases said stem into said first position; and,

a handle operably engaged with said stem to receive manual input force, wherein said stem is movable in response to movement of said handle.

2. The faucet as set forth in claim 1, further comprising:

a spout defining a dispensing bore located downstream from said flow path, wherein said flow path is in communication with said dispensing bore when said stem is located in said second position, and wherein said seal blocks communication between said dispensing bore and said flow path when said stem is located in said first position.

3. The faucet as set forth in claim 2, further comprising a bonnet connected to said body, wherein said bonnet comprises a hollow chamber through which at least a second portion of said stem extends.

4. The faucet as set forth in claim 3, wherein said bonnet is releasably connected to said body.

5. The faucet as set forth in claim 4, wherein said bonnet and said body respectively define mating first and second portions of a bayonet mount structure, and wherein said bonnet is releasably connected to said body when said first portion of said bayonet structure is mated to said second portion of said bayonet structure.

6. The faucet as set forth in claim 3, wherein a distal end of said second portion of said stem is located external to said hollow chamber, and wherein said handle is pivotably connected to said distal end.

7. The faucet as set forth in claim 6, wherein said handle comprises a cam portion that bears against said bonnet and when said handle is pivoted relative to said bonnet from a first position to a second position, said second position of said handle corresponding to said second position of said stem.

8. The faucet as set forth in claim 5, further comprising a locking clip releasably engaged with both said bonnet and said body when said bonnet is connected to said body, wherein said locking clip inhibits unintended decoupling rotation of said bonnet relative to said body.

9. The faucet as set forth in claim 5, wherein said bonnet comprises first and second resilient fingers projecting outwardly therefrom, wherein said first and second fingers resiliently engage first and second portions of said body when said bonnet is connected to said body to inhibit unintended decoupling rotation of said bonnet relative to said body.

10. The faucet as set forth in claim 3, wherein said spout and said bonnet are connected.

11. The faucet as set forth in claim 10, wherein said spout and bonnet are defined as a one-piece construction.

12. The faucet as set forth in claim 3, wherein said biasing element is operably engaged with said bonnet and said stem.

13. The faucet as set forth in claim 3, further comprising a seal retainer located in said hollow chamber of said bonnet, said seal retainer conformed to limit radial expansion of said seal by comprising a cylindrical recess into which said seal is at least partially axially received.

14. The faucet as set forth in claim 13, wherein said second portion of said stem extends through said cylindrical recess of said seal retainer.

15. The faucet as set forth in claim 14, wherein said seal retainer is abutted with said stem and wherein said biasing element is operably engaged between said bonnet and said seal retainer.

16. The faucet as set forth in claim 15, wherein said seal retainer isolates said biasing element from said dispensing bore.

17. The faucet as set forth in claim 1, wherein said handle and stem are defined by a one-piece construction.

18. The faucet as set forth in claim 17, wherein said handle comprises first and second tabs that project outwardly from said second portion of said stem and are adapted for manual movement by a user to thereby move said stem between said first and second positions.

19. The faucet as set forth in claim 1, wherein said biasing element comprises a coil spring or a resilient elastomeric element.

20. The faucet as set forth in claim 1, wherein said body rotatably supports a nut that is adapted to mate threadably with an associated fitment of an associated fluid container.

21. The faucet as set forth in claim 1, wherein said body comprises threads for mating with an associated fitment of an associated fluid container.

22. The faucet as set forth in claim 1, wherein said seal comprises at least one of a resilient O-ring and a resilient flat washer.

23. The faucet as set forth in claim 22, wherein said seal encircles said stem.

24. The faucet as set forth in claim 23, wherein said sealing face of said body encircles an outlet opening of said main bore and wherein said first portion of said stem is inserted into said outlet opening of said main bore.

25. The faucet as set forth in claim 24, wherein first portion of said stem is closely received into said outlet opening of said main bore so that said first portion of said stem is cleaned by said body when said stem moves from said second position to said first position.

26. The faucet as set forth in claim 1, wherein said flow path comprises an inlet and an outlet, wherein said inlet and outlet are defined by separate, spaced-apart openings in said first portion of said stem.

27. The faucet as set forth in claim 3, wherein said stem is restrained against rotation relative to said bonnet.

28. A faucet comprising:

a body comprising a main bore and a valve seat;

a bonnet connected to said body and defining a chamber;

a spout comprising a dispensing bore having an inlet and an outlet, said inlet of said dispensing bore located downstream relative to said valve seat;

a stem at least partially located in said chamber of said bonnet, said stem comprising a first portion that is slidably engaged with said body, said stem movable between a first position and a second position and further comprising a second portion that projects outwardly from said first portion, said second portion of said stem comprising a distal end located external to said chamber of said bonnet;

a seal engaged with said stem and movable therewith when said stem moves between said first and second positions, wherein said seal is mated with said valve seat of said body when said stem is located in said first position to block fluid flow past said valve seat, and wherein said seal is spaced from said valve seat when said stem is located in said second position to allow fluid flow past said valve seat to said inlet of said dispensing bore;

a spring that normally biases said stem to said first position; and,

a handle operably engaged with said distal end of said second portion of said stem, wherein said handle is manually movable to move said stem from said first position to said second position.

29. A faucet comprising:

a body defining a main bore and a valve seat;

a bonnet connected to said body and defining a chamber;

a spout comprising a dispensing bore that is in communication with said chamber;

a stem that is slidably movable relative to said body between first and second positions, said stem comprising a portion that extends through said chamber of said bonnet and that terminates in a distal portion located external to said chamber;

a handle operably engaged with said distal portion of said stem, wherein said handle is manually movable to control movement of said stem between said first and second operative positions;

a seal member movable with said stem, said seal member mated with said valve seat when said stem is located in said first position and spaced from said valve seat when said stem is located in said second position, wherein said seal member blocks fluid flow from said main bore to said dispensing bore when said stem is located in said first position and said seal is mated with said valve seat.

30. A faucet comprising:

a body comprising a main bore including an inlet and an outlet, said body defining a sealing face that surrounds said outlet of said main bore;

a bonnet connected to said body and defining a chamber;

a spout comprising a dispensing bore located downstream from said outlet of said main bore and in communication with said chamber of said bonnet;

a stem including a first portion that is inserted into said outlet of said main bore and a second portion that projects through said chamber of said bonnet to a distal end located external to said chamber of said bonnet, said first portion of said stem comprising a flow path, wherein said stem is slidably movable relative to said body and said bonnet between a first position wherein said flow path of said stem is fully inserted into said main bore, and a

second position wherein a portion of said flow path is located external to said main bore;

a seal carried by said stem and sealingly engaged with said stem and said sealing face when said stem is located in said first position to block fluid flow from said main bore to said dispensing bore via said flow path, wherein said seal is spaced from said sealing face when said stem is moved to said second position to allow fluid flow from said main bore to said dispensing bore; and,

a actuator handle operably connected to said distal end of said second portion of said stem and manually movable to effect movement of said stem from said first position to said second position.

31. The faucet of claim 30, further comprising a biasing element for biasing said stem to said first position.

32. The faucet as set forth in claim 30, further comprising a flow control insert positioned and secured in said dispensing bore of said spout.